

FEATURES	Location/Qualifiers
source	1..522
	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/clone="DKFZp68610483"
	/clone.lib="686 (synonym: hlcc3)"
	/tissue.type="human skeletal muscle"
	/dev_stage="adult"
	/lab_host="DH10B"
	/note="Vector: pT7p1ex2; Site_1: SfiI; Site_2: SfiIB, cDNA-collection"
BASE COUNT	127 a 107 c 132 g 156 t
ORIGIN	
Query Match	97.4%; Score 435; DB 9; Length 522;
Best Local Similarity	99.8%; Pred. No. 4.4e-90;
Matches	506; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY	2 CCAAAATGGCGGAGGATGATGTGATATACCCGAGCGGCACCAACAGCGCGGCGCA 61
DB	16 CCAAAATGGCGGAGGATGATGTGATATACCCGAGCGGCACCAACAGCGCGGCGCA 75
QY	62 AGAAGCGCTTTAAAGTAAAGATGAAATGATGAGCCCTCTGGGCGCTGGATTTGG 121
DB	76 AAGAGCGCTTTAAAGTAAAGATGAAATGATGAGCCCTCTGGGCGCTGGATTTGG 135
QY	122 TTGATTAAGTGTCCATCTGACAGAACCCACATTATGGATCTTTCATAGATGTCAAGCTA 181
DB	136 TTGATTAAGTGTCCATCTGACAGAACCCACATTATGGATCTTTCATAGATGTCAAGCTA 195
QY	182 ACCAGGCGCTCCCTACTCTCAGAAAGATGACTGTGGCATGGGGAGTCTTAACCATGCTT 241
DB	196 ACCAGGCGCTCCCTACTCTCAGAAAGATGACTGTGGCATGGGGAGTCTTAACCATGCTT 255
QY	242 TTCACCTTCACATGCACATCTCTCGCTGCTCAAAACACAGACAGGTGTGTCATGGACAACA 301
DB	256 TTCACCTTCACATGCATCTCTCGCTGCTCAAAACACAGACAGGTGTGTCATGGACAACA 315
QY	302 GAGAGTGGGAATTCCAAAAGTATGGGACATAGGAAAGACATTCTTCATCAAGCTTAATT 361
DB	316 GAGAGTGGGAATTCCAAAAGTATGGGACATAGGAAAGACATTCTTCATCAAGCTTAATT 375
QY	362 GTTTTGTTATTTAATTAATGACTTCCCTGCTGTACCTAATTACAAATTGGATGGAAAC 421
DB	376 GTTTTGTTATTTAATTAATGACTTCCCTGCTGTACCTAATTACAAATTGGATGGAAAC 434
QY	422 TGTGTTTTTTTGTGTTTTGTTTTTTCAGTTTGCTGTTCGTAGGCCAATTTGATTTCGT 481
DB	435 TGTGTTTTTTTGTGTTTTGTTTTTTCAGTTTGCTGTTCGTAGGCCAATTTGATTTCGT 494
QY	482 GTCAAAATTAAGTCAGTTGGATTCTGG 508
DB	495 GTCAAAATTAAGTCAGTTGGATTCTGG 521
RESULT 2	
LOCUS	525 bp mRNA linear EST 27-FEB-2001
DEFINITION	602435003p1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4553064 5',
ACCESSION	BC337472
VERSION	BC337472.1 GI:13143910
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Euteria; Primates; Catarrhini; Homiidae; Homo.
TITLE	NIH-MGC http://img.nci.nih.gov/.
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT	unpublished (1999)
	Contact: Robert Strussberg, Ph.D.
	Email: cgabbs-remail.nih.gov

FEATURES	source
Tissue Procurement: ATCC	
cDNA Library Preparation: Ling Hong/Rubin Laboratory	
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)	
DNA Sequencing by: Incyte Genomics, Inc.	
Clone distribution: MCC clone distribution information can be found through the I.M.A.G.E. Consortium/LNLN at:	
http://image.lnl.gov	
Plate: LNCM1250 row: e column: 01	
High quality sequence stop: 525.	
Location/Qualifiers	
1. 525	
/organism="Homo sapiens"	
/db_xref="taxon:9606"	
/clone_image="4553064"	
/clone_lib="NIH_MGC_46"	
/tissue_type="leiomyosarcoma cell line"	
/lab_host="DH10B (phage-resistant)"	
/note="Organ: uterus; Vector: pORF7; Site:1; XhoI; site:2; EcoRI; cDNA made by oligo-dt priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCGAGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."	
BASE COUNT	144 a 105 c 125 g 151 t
ORIGIN	
Query Match	97.4%; Score 495; DB 12; Length 525;
Best Local Similarity	99.8%; Pred. No. 4.4e-90;
Matches 506; Conservative	0; Mismatches 0; Indels 1; Gaps 1;
2 CCAAAATGGCGGACGATGATGTGATATACCCGAGCGGACCAACAGCGCGGGCA 61	
2 CCAAAATGGCGGACGATGATGTGATATACCCGAGCGGACCAACAGCGCGGGCA 61	
62 AGAAGCGCTTGAATGAAAAAGTGAATGACGATAGCCCTCTGGGCTGGATATTGTGG 121	
62 AGAAGCGCTTGAATGAAAAAGTGAATGACGATAGCCCTCTGGGCTGGATATTGTGG 121	
122 TTGATAACTGTGCGCATGCGAGAACCAATATGATCTTGGATACAAATGTCAAAGCTA 181	
122 TTGATAACTGTGCGCATGCGAGAACCAATATGATCTTGGATACAAATGTCAAAGCTA 181	
182 ACCAGCGCTCGCTACTTCAGAAAGATGTACTGTGCATGAGGAGTGTGTACCAATGCTT 241	
182 ACCAGCGCTCGCTACTTCAGAAAGATGTACTGTGCATGAGGAGTGTGTACCAATGCTT 241	
242 TTCACTTCCACATGCAATCTCTCGCTGCTCAAAACGACAGGTGTGCTCAATGTG3ACAAACA 301	
242 TTCACTTCCACATGCAATCTCTCGCTGCTCAAAACGACAGGTGTGCTCAATGTG3ACAAACA 301	
302 GAGAGTGGGAATTCGAAAGATATGGGCACTGGGAAGAAAGCTTCCATCAAGCTTAAT 361	
302 GAGAGTGGGAATTCGAAAGATATGGGCACTGGGAAGAAAGCTTCCATCAAGCTTAAT 361	
362 GTTTTGTATTCAATTAATTGACTTTCCTGCTGTACTTAATTAATCAAAATGGATGAGAC 421	
362 GTTTTGTATTCAATTAATTGACTTTCCTGCTGTACTTAATTAATCAAAATGGATGAGAC 421	
421 TGTGTTTTTTCTGCTTGTGTTTTTCACTTGTGCTGTCTGTAGACCAATATTGTATTCTGT 480	
421 TGTGTTTTTTCTGCTTGTGTTTTTCACTTGTGCTGTCTGTAGACCAATATTGTATTCTGT 480	
482 GTCAATAATAAGTCAGTGTGATTCGG 508	
482 GTCAATAATAAGTCAGTGTGATTCGG 508	
481 GTCAATAATAAGTCAGTGTGATTCGG 507	
481 GTCAATAATAAGTCAGTGTGATTCGG 507	

DEFINITION	602528456E1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:4652028 5', mRNA sequence.
ACCESSION	BC481544
VERSION	BC481544.1 GI:13413823
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
AUTHORS	1 (bases 1 to 886)
TITLE	NIH-MGC http://mgc.nci.nih.gov/ .
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgabbs-remail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov Plate: L1CM1435 row: p column: 13 High quality sequence stop: 529.
FEATURES	Location/Qualifiers
Source	1..886 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:4652028" /clone_lib="NIH_MGC_21" /tissue_type="choriocarcinoma" /lab_host="DH10B (phage-resistant)" /note="Organ: placenta; Vector: pOTB7; site_1: XhoI; site_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
BASE COUNT	266 a 193 c 234 g 193 t
ORIGIN	
Query Match	97.4%; Score 495; DB 12; Length 886;
Best Local Similarity	99.8%; Pred. No. 3.9e-90;
Matches	506; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
QY	2 CCAAAATGGCGGACGATGATGTGGATACCCCGAGCGGACCAACAGCGCGCGGCA 61
DB	2 CCAAAATGGCGGACGATGATGTGGATACCCCGAGCGGACCAACAGCGCGCGGCA 61
QY	62 AGAAGCGCTTTAAAGGAAAAGTGGAAATGAGTACGCTCGGGCGTGGATTTGG 121
DB	62 AGAAGCGCTTTAAAGTAAAAAGTGGAAATGAGTACGCTCGGGCGTGGATTTGG 121
QY	122 TTGATTAAGTGTGCATCTGACAGAACCAATATGATCTTTGCATAGATGTCAAGCTA 181
DB	122 TTGATTAAGTGTGCATCTGACAGAACCAATATGATCTTTGCATAGATGTCAAGCTA 181
QY	182 ACCAGGCGTCCGCTACTTCAGAAAGTGTACTGTGGCATGGGAGTCTGTAAACATGCTT 241
DB	182 ACCAGGCGTCCGCTACTTCAGAAAGTGTACTGTGGCATGGGAGTCTGTAAACATGCTT 241
QY	242 TTCACGTCCACGACATCTGCTGGCTCAAAAACGACAGGTGTGTCACATTGGACACA 301
DB	242 TTCACGTCCACGACATCTGCTGGCTCAAAAACGACAGGTGTGTCACATTGGACACA 301
QY	302 GAGAGTGGGAATTCAAAAGTATGGGCACTAGAAAAGACTTCTTCATCAAGCTTAATT 361
DB	302 GAGAGTGGGAATTCAAAAGTATGGGCACTAGAAAAGACTTCTTCATCAAGCTTAATT 361
QY	362 GTTTTGTATTCATTTAATTTGACTTCCCTGCTGTACCTAATTAACAAATTGGATGAAC 421

Db	362	GTGTTGATTCATTTAA-TGACCTTCCTCGCTGTTTACCTAATTCAATATGATGGAAC	420
Qy	422	TGTGTTTTTTCCTGCTTTGTTTTTCAGTTTGCTTTTCTGTAGCCATATGTATCTGT	481
Db	421	TGTGTTTTTTCCTGCTTTGTTTTTCAGTTTGCTTTTCTGTAGCCATATGTATCTGT	480
Qy	482	GTCAATAAAGTCAGTTGATTCGG	508
Db	481	GTCAATAAAGTCAGTTGATTCGG	507
RESULT 4			
LOCUS	BO216738	945 bp	mRNA linear EST 02-MAY-2002
DEFINITION	AGNCOURT.7575192 NIH_MGC_72 Homo sapiens CDNA clone IMAGE:6049202		
ACCESSION	BO216738		
VERSION	BO216738.1		
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1 (bases 1 to 945)		
JOURNAL	NIH-MGC http://mgc.nci.nih.gov/		
COMMENT	National Institutes of Health, Mammalian Gene Collection (MGC) unpublished (1999)		
	Contact: Robert Strausberg, Ph.D.		
	Email: rsraus@rmail.nih.gov		
	Tissue Procurement: ATCC/DCWD/DPF		
	cDNA Library Preparation: Life Technologies, Inc.		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)		
	DNA Sequencing by: Agencourt Bioscience Corporation		
	Clone distribution: MGC clone distribution information can be		
	found through the I.M.A.G.E. Consortium/LNLN at:		
	http://image.lnl.gov		
	Plate: L1M13299 row: h column: 03		
	High quality sequence stop: 543.		
FEATURES			
source	Location/Qualifiers		
	1..945		
	/organism="Homo sapiens"		
	/db_xref="taxon:9606"		
	/clone="IMAGE:6049202"		
	/clone_11b="NIH_MGC_72"		
	/tissue_type="melanotic melanoma"		
	/lab_host="DH10B (phage-resistant)"		
	/note="Organ: skin; Vector: pCMV-SPORT6; Site.1: NctI;		
	Site.2: SalI; Cloned unidirectionally. Primer: Oligo dT.		
	Average insert size 2 kb. Library constructed by Life		
	Technologies."		
BASE COUNT	240 a 235 c 230 g 240 t		
ORIGIN			
Query Match	97.4%;	Score 495;	DB 14; Length 945;
Best Local Similarity	99.8%;	Pred. No. 3.8e-90;	
Matches 506; Conservative	0;	Mismatches 0;	Indels 1; Gaps 1.
Qy	2	CCAAATATGCGGAGAGATGATGTGATACCCCGAGCGGCACCAACAGCGCGGCGCA	61
Db	28	CCAAATATGCGGAGAGATGATGTGATACCCCGAGCGGCACCAACAGCGCGGCGCA	87
Qy	62	AGAGCGCTTTGAAGTGAAGAAAGTGGAATGACAGTACCCCTCTGGGCTTGATATTGTG	121
Db	88	AGAGCGCTTTGAAGTGAAGAAAGTGGAATGACAGTACCCCTCTGGGCTTGATATTGTG	147
Qy	122	TTGATTAAGTGTGATCTGACAGACACCATTAATGATTTTGATAGATGTCAAGCTA	181
Db	148	TGATTAAGTGTGATCTGACAGACACCATTAATGATTTTGATAGATGTCAAGCTA	207
Qy	182	ACCAGGCGTCCGCTACTTGAAGAGTACTGTGCATGGGAGAGCTGAACATGCTT	241
Db	208	ACCAGGCGTCCGCTACTTGAAGAGTACTGTGCATGGGAGAGCTGAACATGCTT	267

QY 242 TTCACCTTCAGTCTCTGCTGGCTCAAAACACGACAGGTGTTCATTGGACACA 301
|||||
Db 268 TTCACCTTCAGTCTCTGCTGGCTCAAAACACGACAGGTGTTCATTGGACACA 327
QY 302 GAGAGTGGGAATTCAAAAGATGAGGACCTAGGAAAAGACTTCCATCAAGCTTAAT 361
|||||
Db 328 GAGAGTGGGAATTCAAAAGATGAGGACCTAGGAAAAGACTTCCATCAAGCTTAAT 387
QY 362 GTTTGTTATTCATTATATGACTTTCCTGCTGTACCTAATTAACAATTTGATGAGAC 421
|||||
Db 388 GTTTGTTATTCATTATTA-TGACTTTCCTGCTGTACCTAATTAACAATTTGATGAGAC 446
QY 422 TGTGTTTTTCTGCTGTTGTTTTCAGTTTGTCTGTTCTAGCCATTTGATTCGT 481
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Db 447 TGTGTTTTTCTGCTGTTGTTTTCAGTTTGTCTGTTCTAGCCATTTGATTCGT 506
QY 482 GTCAAAATTAAGTCCAGTTGGATTCGG 508
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Db 507 GTCAAAATTAAGTCCAGTTGGATTCGG 533

RESULT 5

B0050461

1098 bp mRNA linear EST 29-MAR-2002

LOCUS B0050461 1098 bp mRNA linear EST 29-MAR-2002

DEFINITION AGENCOURT_7050949 NIH_MGC_71 Homo sapiens CDNA clone IMAGE:5784423

ACCESSION B0050461

VERSION B0050461.1 GI:19809801

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 1098)

TITLE NIH-MGC http://mgs.nci.nih.gov/

JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgabs-remail.nih.gov

Tissue Procurement: ATCC

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL at:

http://image.lnl.gov

Plate: LLM12869 row: 0 column: 16

High quality sequence stop: 548.

Location/Qualifiers

FEATURES

source

1.1098

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:5784423"

/clone_id="NIH_MGC_71"

/tissue_type="leptomysarcoma"

/lab_host="DH10B (phage-resistant)"

/note="Organ: uterus; Vector: pCMV-Sport6; Site_1: NotI;

Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.

Average insert size 2.1 kb.

BASE COUNT 323 a 333 c 176 g 262 t 4 others

ORIGIN

Query Match

Best Local Similarity 97.4%; Score 495; DB 14; Length 1098;

Matches 506; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 2 CCAAAATGCGGCGGCGGATGATGATACCGGAGGCGGACACAGCGCGGCGGCA 61
|||||
Db 28 CCAAAATGCGGCGGCGGATGATGATACCGGAGGCGGACACAGCGGCGGCGGCA 87
QY 62 AGAAGCGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 121
|||||
Db 88 AGAAGCGCTTTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 147

QY 122 TTGATTAAGTGGCATCTGACGAGAACACATTATGATCTTTGATAGATGTAAGCTA 181
|||||
Db 148 TTGATTAAGTGGCATCTGACGAGAACACATTATGATCTTTGATAGATGTAAGCTA 207
QY 182 ACCAGGCGTCCGCTACTACACAGAGTACTGTGCGATGGGAGATCTGTACCATGTT 241
|||||
Db 208 ACCAGGCGTCCGCTACTACACAGAGTACTGTGCGATGGGAGATCTGTACCATGTT 267
QY 242 TTCACCTTCAGTCTCTGCTGGCTCAAAACACGACAGGTGTTCATTGGACACA 301
|||||
Db 268 TTCACCTTCAGTCTCTGCTGGCTCAAAACACGACAGGTGTTCATTGGACACA 327
QY 302 GAGAGTGGGAATTCAAAAGATGAGGACCTAGGAAAAGACTTCCATCAAGCTTAAT 361
|||||
Db 328 GAGAGTGGGAATTCAAAAGATGAGGACCTAGGAAAAGACTTCCATCAAGCTTAAT 387
QY 362 GTTTGTTATTCATTATATGACTTTCCTGCTGTACCTAATTAACAATTTGATGAGAC 421
|||||
Db 388 GTTTGTTATTCATTATTA-TGACTTTCCTGCTGTACCTAATTAACAATTTGATGAGAC 446
QY 422 TGTGTTTTTCTGCTGTTGTTTTCAGTTTGTCTGTTCTAGCCATTTGATTCGT 481
|||||
Db 447 TGTGTTTTTCTGCTGTTGTTTTCAGTTTGTCTGTTCTAGCCATTTGATTCGT 506
QY 482 GTCAAAATTAAGTCCAGTTGGATTCGG 508
|||||
Db 507 GTCAAAATTAAGTCCAGTTGGATTCGG 533

RESULT 6

B0478622

537 bp mRNA linear EST 21-MAR-2001

LOCUS B0478622 537 bp mRNA linear EST 21-MAR-2001

DEFINITION 60252509F1 NIH_MGC_20 Homo sapiens CDNA clone IMAGE:4643619 5'

ACCESSION B0478622

VERSION B0478622.1 GI:13410901

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE 1 (bases 1 to 537)

TITLE NIH-MGC http://mgs.nci.nih.gov/

JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)

COMMENT Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgabs-remail.nih.gov

Tissue Procurement: ATCC/DCMP

CDNA Library Preparation: Ling Hong/Rubin Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LNL at:

http://image.lnl.gov

Plate: LLM1414 row: b column: 04

High quality sequence stop: 534.

Location/Qualifiers

FEATURES

source

1.537

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone="IMAGE:4643619"

/clone_id="NIH_MGC_20"

/tissue_type="melanotic melanoma"

/lab_host="DH10B (phage-resistant)"

/note="Organ: skin; Vector: pORF7; Site_1: XhoI; Site_2:

EcoRI; CDNA made by oligo-dT priming. Directionally

cloned into EcoRI/XhoI sites using the following 5'

adaptor: GGACGAG(6). Size-selected >500bp for average

insert size 1.8kb. Library constructed by Ling Hong in

the laboratory of Gerald M. Rubin (University of

California, Berkeley) using ZAP-cDNA synthesis kit

(Stratagene) and Superscript II RT (Life Technologies)."

Db 181 CAGCGCTCCGCTACTTCAGAGAGTGTACTGTGCATGGGAGTCTGTAAACCATGCTTTT 240
 Qy 244 CACTTCACATCTCTCTGCTGAGCTCAAAACACACAGAGTGTCTCATTTGGACAACAGA 303
 Db 241 CACTTCACATCTCTCTGCTGAGCTCAAAACACACAGAGTGTCTCATTTGGACAACAGA 300
 Qy 304 GAGTGGGAATTCAGAAAGATGAGCAGTACGAAAGAGCTTCTTCATCAAGCTTAATGT 363
 Db 301 GAGTGGGAATTCAGAAAGATGAGCAGTACGAAAGAGCTTCTTCATCAAGCTTAATGT 360
 Qy 364 TTTGTTATTCATTAATGACCTTCCCTGCTTCTTACCTAATTAACAATTTGATGACACTG 423
 Db 361 TTTGTTATTCATTAATGACCTTCCCTGCTTCTTACCTAATTAACAATTTGATGACACTG 419
 Qy 424 TGTGTTATTCATTAATGACCTTCCCTGCTTCTTACCTAATTAACAATTTGATGACACTG 483
 Db 420 TGTGTTATTCATTAATGACCTTCCCTGCTTCTTACCTAATTAACAATTTGATGACACTG 479
 Qy 484 CAAATTAAGTCCAGTTGATTCCTG 507
 Db 480 CAAATTAAGTCCAGTTGATTCCTG 503

RESULT 10
 BM757406 529 bp mRNA linear EST 04-MAR-2002
 LOCUS K-EST0036388 SISNUS Homo sapiens cDNA clone SISNUS-29-H12 5', mRNA
 DEFINITION
 ACCESSION BM757406
 VERSION BM757406.1 GI:19087021
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 529)
 AUTHORS Kim,N.S., Hahn,Y., Oh,J.H., Lee,J.Y., Ahn,H.Y., Chu,M.Y., Kim,M.R., Oh,K.J., Cheong,J.E., Sohn,H.Y., Kim,J.M., Park,H.S., Kim,S. and Kim,Y.S.
 TITLE 21C Frontier Korean EST Project 2001
 JOURNAL Unpublished (2002)
 COMMENT Contact: Kim YS
 Genome Research Center
 Korea Research Institute of Bioscience & Biotechnology
 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea
 Tel: +82-42-860-4470
 Fax: +82-42-860-4409
 Email: yongsung@mail.kr.ibm.re.kr
 Plate: 29 row: H column: 12
 High quality sequence stop: 529.

FEATURES

source
 1..529
 Location/Qualifiers
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="SISNUS-29-H12"
 /clone_lib="SISNUS"
 /sex="F"
 /tissue_type="Ascites"
 /cell_type="Lymphoblast-like"
 /lab_host="SNU-5"
 /lab_line="Top10F"
 /note="Organ: Stomach; Vector: pCNS; Site: 1; EcoRI; Site: 2; NotI; The poly (A) + RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then dephosphorylated with tobacco acid pyrophosphatase (TAP). The dephosphorylated intact mRNA was ligated with DNA-RNA linker including EcoRI I site by treatment of T4 RNA ligase and the first strand cDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with E. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Okayama-Berg method. The

obtained cDNA vectors were used for transformaton of competent cells E. coli Top10F by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library.

Query Match 96.7%; Score 491; DB 14; Length 529;
 Best Local Similarity 99.8%; Pred. No. 2.8e-89;
 Matches 502; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

BASE COUNT 141 a 107 c 126 g 155 t
 ORIGIN
 Qy 2 CCAAAATGGCGGACGATGATGTGATACCCGAGCGGACCAACAGCGGCGGCA 61
 Db 28 CCAAAATGGCGGACGATGATGTGATACCCGAGCGGACCAACAGCGGCGGCA 87
 Qy 62 ACAAGCGCTTTAAGTGAAGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 121
 Db 88 ACAAGCGCTTTAAGTGAAGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 147
 Qy 122 TTGATTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 181
 Db 148 TTGATTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 207
 Qy 182 ACCAGGCGTCCGCTACTCTCAGAAAGTGTACTGTGCATGGGAGTGTGATGATGAT 241
 Db 208 ACCAGGCGTCCGCTACTCTCAGAAAGTGTACTGTGCATGGGAGTGTGATGATGAT 267
 Qy 242 TTCACCTTCACATGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 301
 Db 268 TTCACCTTCACATGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 327
 Qy 302 GAGAGTGGGAATTCAGAAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 361
 Db 328 GAGAGTGGGAATTCAGAAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 387
 Qy 362 GTTTGTTATTCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 421
 Db 388 GTTTGTTATTCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 446
 Qy 422 TGTGTTATTCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 481
 Db 447 TGTGTTATTCATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 506
 Qy 482 GTCAATTAAGTCCAGTTGATTCCTG 504
 Db 507 GTCAATTAAGTCCAGTTGATTCCTG 529

RESULT 11
 AV715190 607 bp mRNA linear EST 11-OCT-2000
 LOCUS AV715190 DCB Homo sapiens cDNA clone DCBBKBD1 5', mRNA sequence.
 DEFINITION
 ACCESSION AV715190
 VERSION AV715190.1 GI:10796707
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 607)
 AUTHORS Xu,X., Gu,J., Liu,F., Qu,J., Zhao,M., Li,Y., Huang,Q., Zhou,J., Song,H., Gu,Y., Yang,Y., Gao,G., Xiao,H., Li,N., Qian,B., Gao,X., Cheng,Z., Xu,S., Gu,W., Tu,Y., Jia,J., Fu,G., Ren,S., Zhong,M., Lu,G., Cheng,Z. and Han,Z.
 TITLE Homo sapiens cDNA DCB clones
 JOURNAL Unpublished (2000)
 COMMENT Contact: Zeguang Han
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```

Db 241 TTCCAGTCACTCTCTGCGTGGCTCAAAAACAGCAGAGTGTGTCATTGGACACAGAGAG 300
Qy 307 TGGGAATTCACAAAGTATGGGCACTAGAGAAAAGACTTCTCCATCAGCTTAATTTT 366
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Db 361 GTTATTCATTTAATGACCTTCCCTGCTGTTACCTAATTTACAAATGATGAGACTGT 419
Qy 427 TTTTTCGCTTTGTTTTCAGTTTGTGCTGTTCTGTAGCCATATTTATCTGTCTCAA 486
Db 420 TTTTTCGCTTTGTTTTCAGTTTGTGCTGTTCTGTAGCCATATTTATCTGTCTCAA 479
Qy 487 ATAAAGTCAGTTGATTCGG 508
Db 480 ATAAAGTCAGTTGATTCGG 501

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RESULT 15

BF684301

LOCUS 602141229F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302415 5',

DEFINITION

mRNA sequence.

ACCESSION

BF684301.1 GI:11969709

VERSION

EST.

KEYWORDS

human.

SOURCE

Homo sapiens

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

REFERENCE

1 (bases 1 to 520)

AUTHORS

NIH-MGC http://mgc.nci.nih.gov/

TITLE

National Institutes of Health, Mammalian Gene Collection (MGC)

JOURNAL

Unpublished (1999)

COMMENT

Contact: Robert Strausberg, Ph.D.

COMMENT

Email: cgabs-remail.nih.gov

COMMENT

Tissue Procurement: ATCC

COMMENT

cDNA Library Preparation: Ling Hong/Rubin Laboratory

COMMENT

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)

COMMENT

DNA Sequencing by: Incyte Genomics, Inc.

COMMENT

Clone distribution: MGC clone distribution information can be

COMMENT

found through the I.M.A.G.E. Consortium/LNL at:

COMMENT

http://image.llnl.gov

COMMENT

Plate: LNCM164 row: 1 column: 08

COMMENT

High quality sequence stop: 517.

FEATURES

location/Qualifiers

source

1. 520

source

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source

/db_xref="taxon:9606"

source

/clone="IMAGE:4302415"

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/clone_lib="NIH_MGC_46"

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/tissue_type="leiomyosarcoma cell line"

source

/lab_host="DH10B (phage-resistant)"

source

/note="Organ: uterus; Vector: pORF7; Site:1: XhoI; Site:2:

source

EcoRI; cDNA made by oligo-dT priming. Directionally cloned

source

into EcoRI/XhoI sites using the following 5' adaptor:

source

GGCAGCAG(C). Size-selected >500bp for average insert size

source

1.8kb. Library constructed by Ling Hong in the laboratory

source

of Gerald M. Rubin (University of California, Berkeley)

source

using Zap-cDNA synthesis kit (Stratagene) and Superscript

source

II RT (Life Technologies). Note: this is a NIH_MGC

source

Library."

BASE COUNT

141 a 105 c 125 g 148 t 1 others

ORIGIN

Query Match 95.6%; Score 485.4; DB 12; Length 520;

Matches

497; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

Qy

9 GGCAGCAGCAGTGGATGATCCCGAGCGACACAGCGCGGCGCAGAGAGCG 68

Db

|||||

Db 1 GGCAGCAGCAGTGGATGATCCCGAGCGGACACAGAGCGCGGCGCAGAGAGCG 60

Qy 69 CTTTGAAGTGAAGAAAGTGAATGACAGTACCCTCTGGGCTGGATATTTGGTGAATA 128

Db 61 CTTTGAAGTGAAGAAAGTGAATGACAGTACCCTCTGGGCTGGATATTTGGTGAATA 120

Qy 129 CTGTGCAATCTGACAGGAACACATTTATGATCTTTTGCAATAGATGTCAAAGTAAACGAGC 188

Db 121 CTGTGCAATCTGACAGGAACACATTTATGATCTTTTGCAATAGATGTCAAAGTAAACGAGC 180

Qy 189 GTCCGCTACTTCAGAGAGTGTACTGTGCATGGGAGCTGTAAACATGCTTTTCACTT 248

Db 181 GTCCGCTACTTCAGAGAGTGTACTGTGCATGGGAGCTGTAAACATGCTTTTCACTT 240

Qy 249 CCACATGATCTCTCGCTGCTCAAAAACAGACAGGTGTGTCCATTTGACACACAGAGGTG 308

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Db 361 TATTCATTTAATGACCTTCCCTGCTGTACCTAATTTACAAATGGATGGAACGTGTTT 419

Qy 429 TTTTCTGCTTTGTTTTCAGTTTGTCTGTCTGTAGCCATATTTATCTGTCTCAAT 488

Db 420 TTTTCTGCTTTGTTTTCAGTTTGTCTGTCTGTAGCCATATTTATCTGTCTCAAT 479

Qy 489 AAAGTCAGTTGATTCGG 508

Db 480 AAAGTCAGTTGATTCGG 499

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